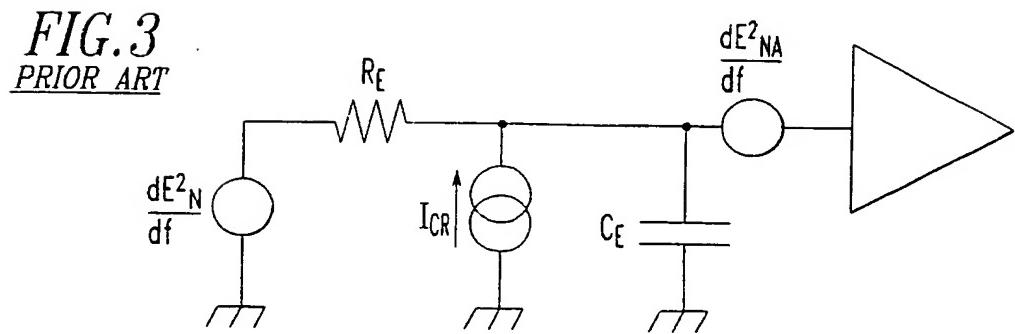
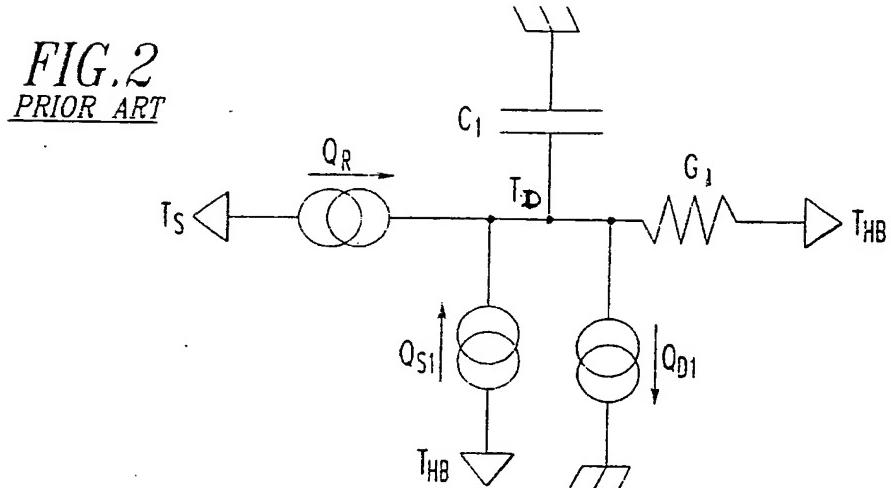
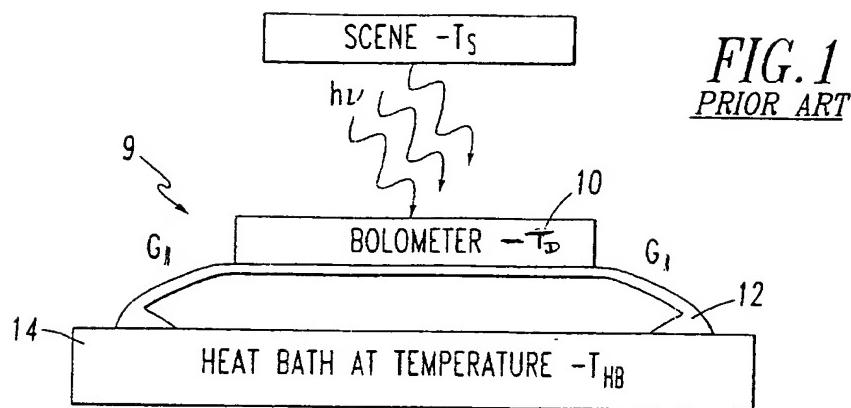


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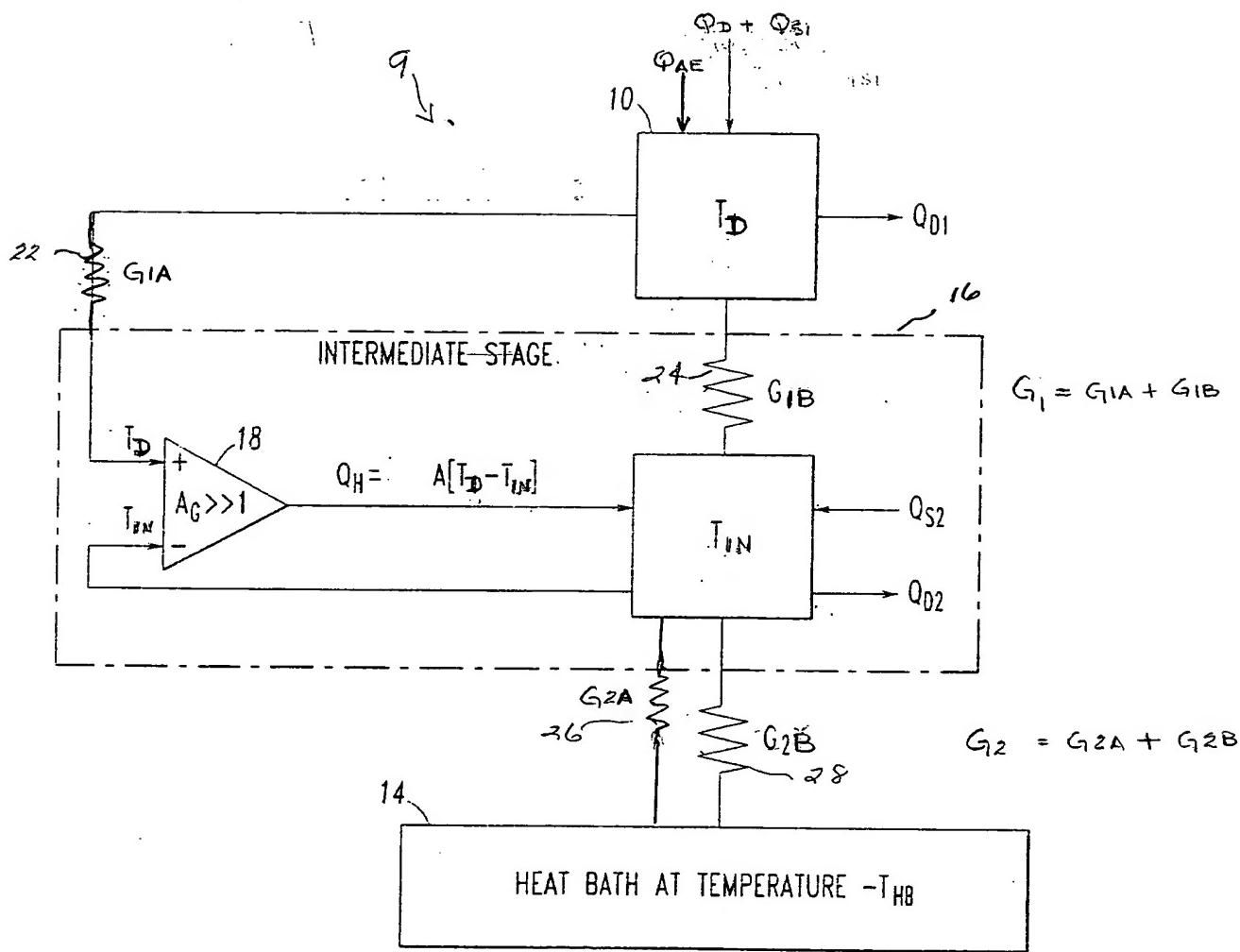


FIG.4

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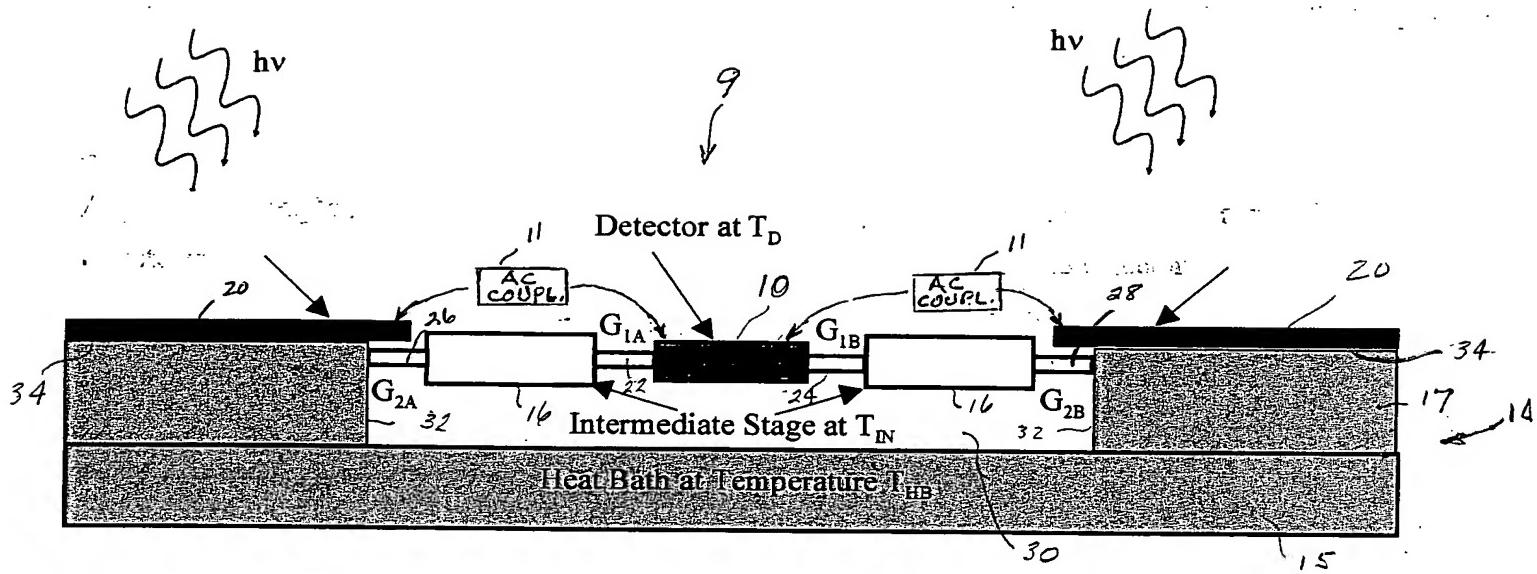
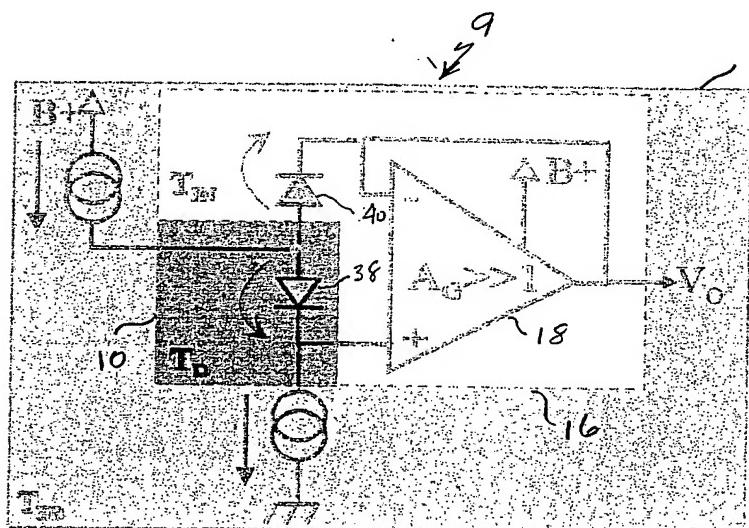


FIG. 5



$$\text{Amplifier Input: } V_{IN} = \Delta\Phi_D(T_D) - \Delta\Phi_{IN}(T_{IN})$$

$$\text{Amplifier Output: } V_O = A_G [\Delta\Phi_D(T_D) - \Delta\Phi_{IN}(T_{IN})]$$

$$\text{Heater Power: } Q_H = I_H V_O$$

FIG. 6

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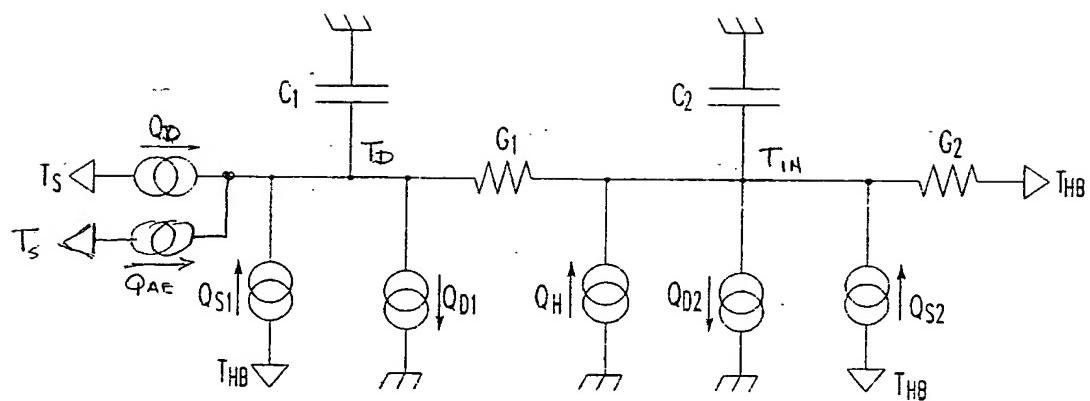


FIG. 7

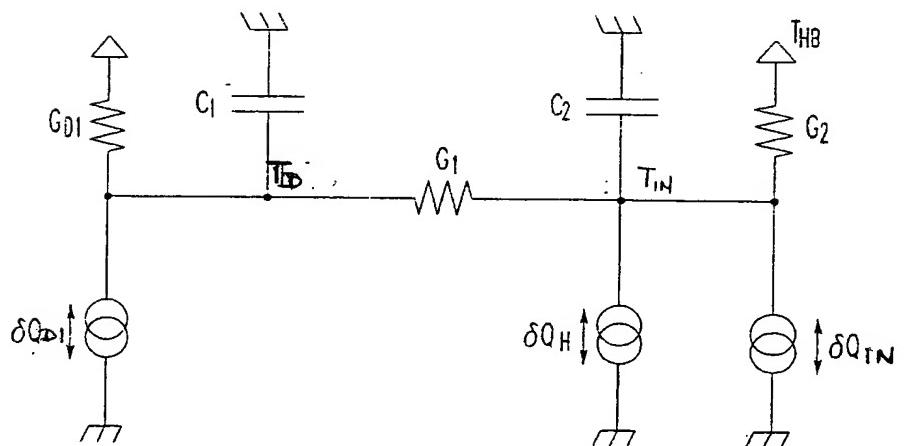


FIG. 8

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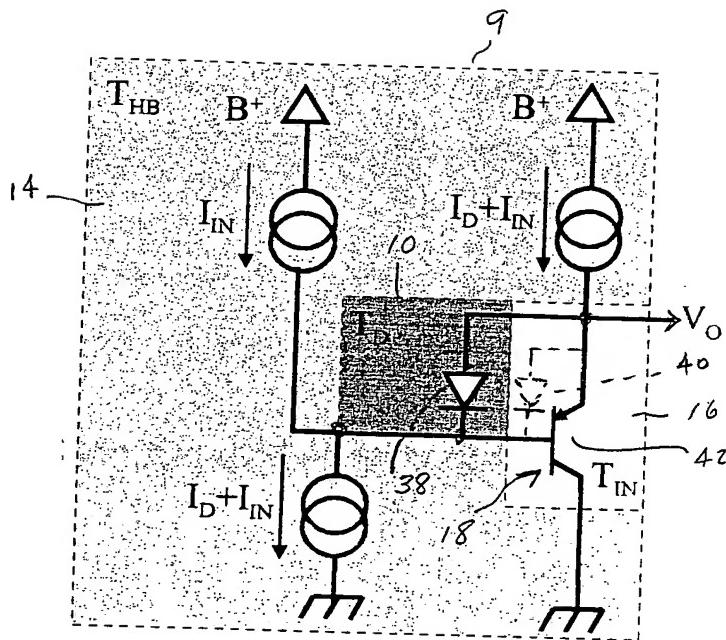


FIG. 9

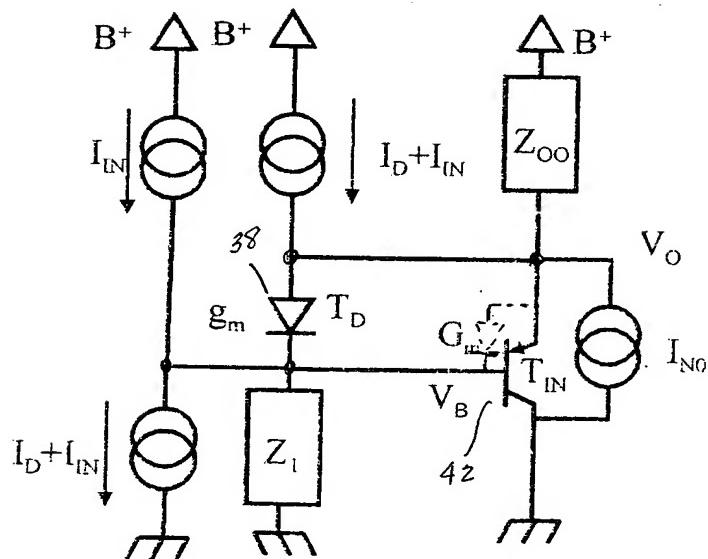


FIG. 10

